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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,741	09/24/2001	Yasumichi Kuwayama	Q66356	5032
7590 04/14/2004 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER CHANG, RICK KILTAE	
			ART UNIT 3729	PAPER NUMBER

DATE MAILED: 04/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/960,741	KUWAYAMA ET AL.	
	Examiner	Art Unit	
	Rick K. Chang	3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) that are not recited in Item 6 below is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species I in Paper No. 02052004 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3-4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujimaki et al (US 5,191,710).

Fujimaki discloses in Fig. 8(A) 21 are inwardly-directed projecting portions that have the same length and bending angle and Fig. 8(C) shows 21 are touching and biting into the conductor portion of the wire 22.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimaki et al (US 5,191,710) in view of Churchill (US 4,349,727).

Fujimaki teaches the invention as described with respect to claim 1 above.

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Fujimaki fails to disclose providing a rotary swaging machine.

Churchill discloses providing a rotary swaging machine (col. 6, lines 50-51).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujimaki by providing a rotary swaging machine, as taught by Churchill, for the purpose of uniformly reducing the terminal onto the wire conductor.

6. Claim 7, 9-10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimaki et al (US 5,191,710) in view of Balfour et al (US 6,230,406).

Fujimaki teaches the invention as described with respect to claims above.

Fujimaki fails to disclose provisionally pressing the pair of clamping piece portions to be curved before the pressing step.

Balfour discloses provisionally pressing the pair of clamping piece portions to be curved before the pressing step (42 are curved by stamping).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujimaki by provisionally pressing the pair of clamping piece portions to be curved before the pressing step, as taught by Balfour, for the purpose of forming cold-welded joint.

7. Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimaki et al (US 5,191,710)/Churchill (US 4,349,727) as applied to claims 2 and 5 above, and further in view of Balfour et al (US 6,230,406).

Fujimaki/Churchill teach the invention as described with respect to claims above.

Fujimaki/Churchill fail to disclose provisionally pressing the pair of clamping piece portions to be curved before the pressing step.

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Balfour discloses provisionally pressing the pair of clamping piece portions to be curved before the pressing step (42 are curved by stamping).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fujimaki/Churchill by provisionally pressing the pair of clamping piece portions to be curved before the pressing step, as taught by Balfour, for the purpose of forming cold-welded joint.

Conclusion

8. Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (703) 308-4784. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.



RICHARD CHANG
PRIMARY EXAMINER

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April 12, 2004